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Claims

1. A multilayer composite which comprises the following layers bound directly to one another:

I. a layer I of a polyamide molding composition;

II. a layer II of a bonding agent comprising at least 50% by weight of a mixture of

a) from 30 to 70 parts by volume polyamide and

b) from 70 to 30 parts by volume of polyolefin,

where the sum of the parts by volume is 100 and in addition at least some of the polyamide is present either in the form of a polyamide-polyolefin graft copolymer or as a highly branched polyamine-polyamide copolymer prepared using the following monomers:

a) from 0.5 to 25% by weight, based on the polyamine-polyamide copolymer, of a polyamine containing at least 4 nitrogen atoms and a number average molecular weight M_n of at least 146 g/mol, and

β) polyamide-forming monomers selected from among lactams, ω-aminocarboxylic acids and/or equimolar combinations of diamines and dicarboxylic acids;

III. if desired a layer III of a polyolefin molding composition.

2. A molding composition prepared by reacting

a) from 30 to 70 parts by volume of the polyamine-polyamide copolymer as defined in claim 1 and

b) from 70 to 30 parts by volume of polyolefin with a maximum of 10% by weight of a free-radical donor, based on the sum of the components a) and b).



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3. The molding composition as claimed in claim 2, wherein from 0.1 to 90% by weight of the polyamine-polyamide copolymer is replaced by a conventional polyamide.